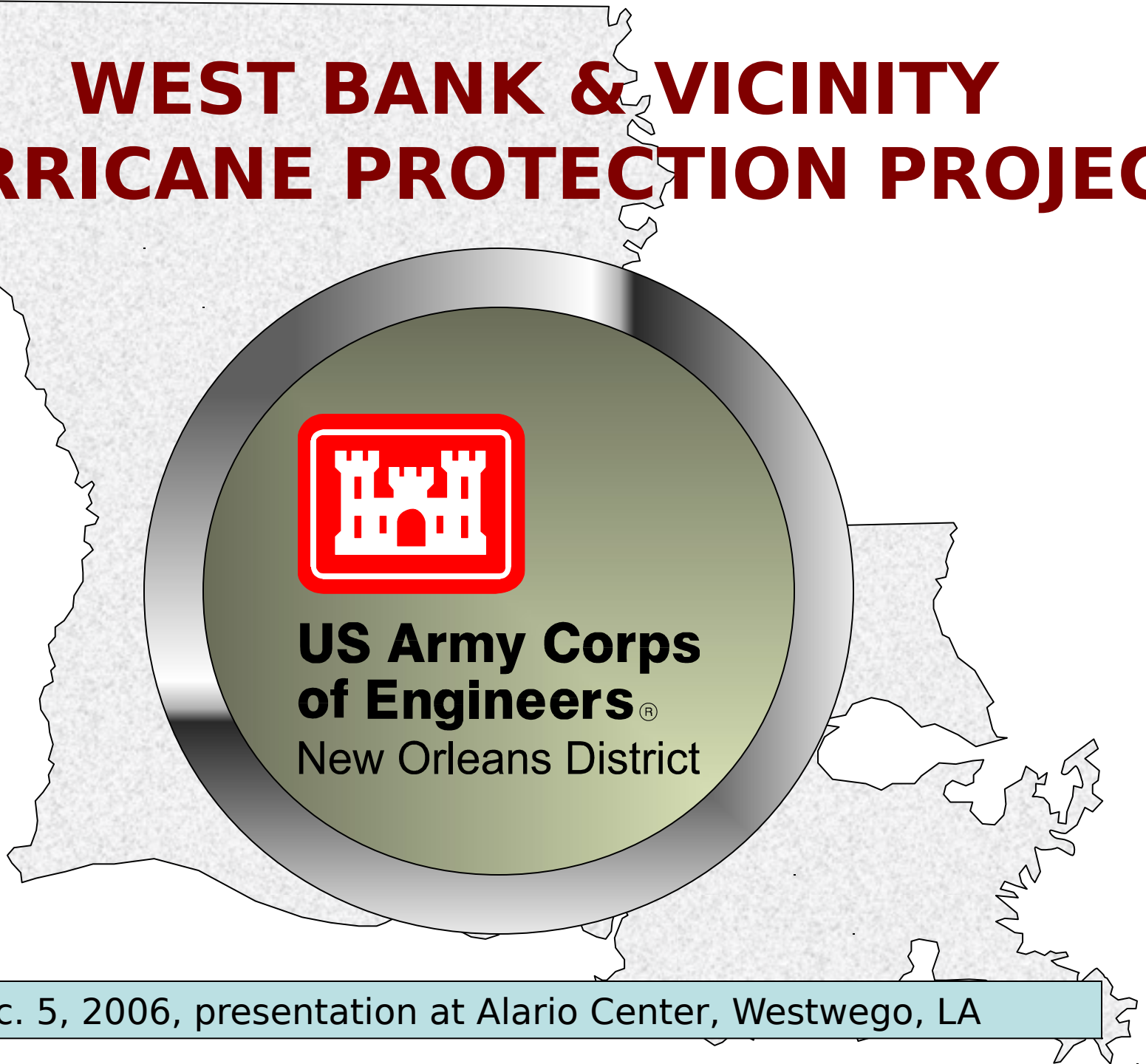
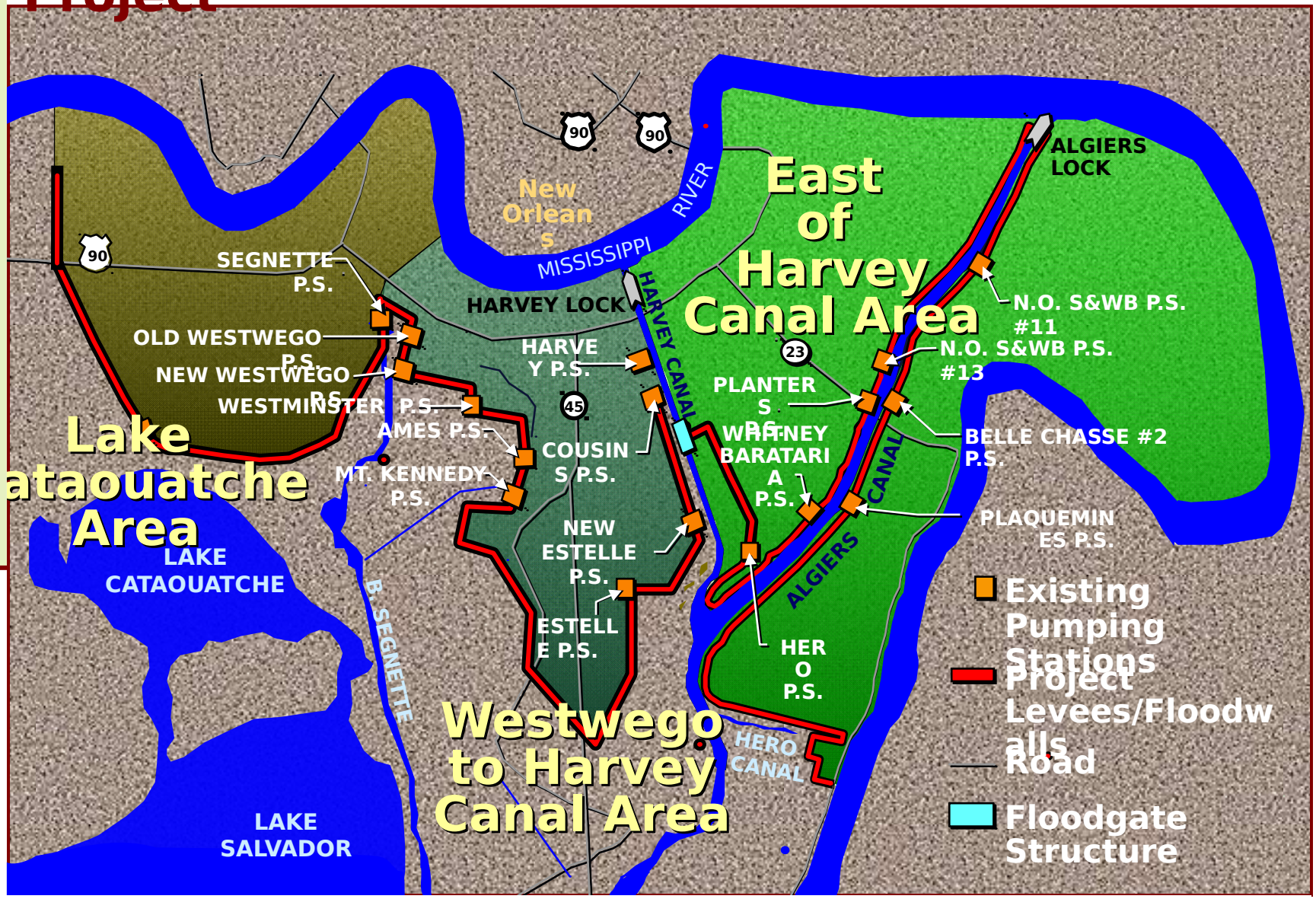
WEST BANK & VICINITY HURRICANE PROTECTION PROJECT



Dec. 5, 2006, presentation at Alario Center, Westwego, LA

West Bank & Vicinity Hurricane Protection Project



The red line is the authorized alignment for the West Bank

West Bank & Vicinity, Harvey Canal floodwalls

- The Harvey Canal floodwalls are a 4 ¼ mile stretch of the West Bank and Vicinity Hurricane Protection Project.
- It stretches along the Harvey Canal from the hurricane flood gate near Lapalco Boulevard to the junction of Algiers Canal and is composed of 3 ½ miles of floodwall & ¾ miles of levee.
- The base floodwall contract was awarded November 9, 2006, to Cajun Constructors from Baton Rouge.
- The floodwall work will be divided into five task orders, each of which will be awarded when designs are complete.
- The first task order is scheduled for award in January 2007, and the last in March 2007.
- Completion dates will vary with each task order, with the first scheduled for completion in late August 2007 and the last in June 2008.

West Bank & Vicinity, Harvey Canal floodwall

The aggressive construction schedule is contingent on these items:

--Project Cooperative Agreement signed by Louisiana Dept of Transportation & Development and the West Jefferson Levee District

--Commandeering and real estate acquisition

--Utility relocations: Entergy, Atmos Gas, BellSouth, railroad, Jefferson Parish Drainage

--Availability and timeliness of acquiring construction materials

--100-year level of protection heights (A hurricane that has a 1 percent probability of occurring in a single year)

--12-hour days, 7-day weeks construction schedule

--Differing site conditions encountered

West Bank & Vicinity, Hurricane Protection Project Communications planning

What we do now:

--Two Corps publications: District Hot Topics and Task Force Hope News
--Regular district briefings with parish and city officials
--Project review meeting with non-federal sponsors every 2 weeks
--Neighborhood association and town hall presentations

What we are considering:

--More dialogue through greater participation in community meetings
--More communication with residents through:
Brochures
E-mail newsletters
New Orleans District Web site
--Briefings to help elected office staff communicate with the public

West Bank & Vicinity, Hurricane Protection Project

History at a glance

--WRDA* 1986 Authorized Westwego to Harvey Canal sector

--WRDA* 1996 Modified project to add Lake Cataouatche
Also authorized East of Harvey Canal

--WRDA* 1999 Combined the three projects into one

--Construction began in 1991

--Will protect about 250,000 citizens

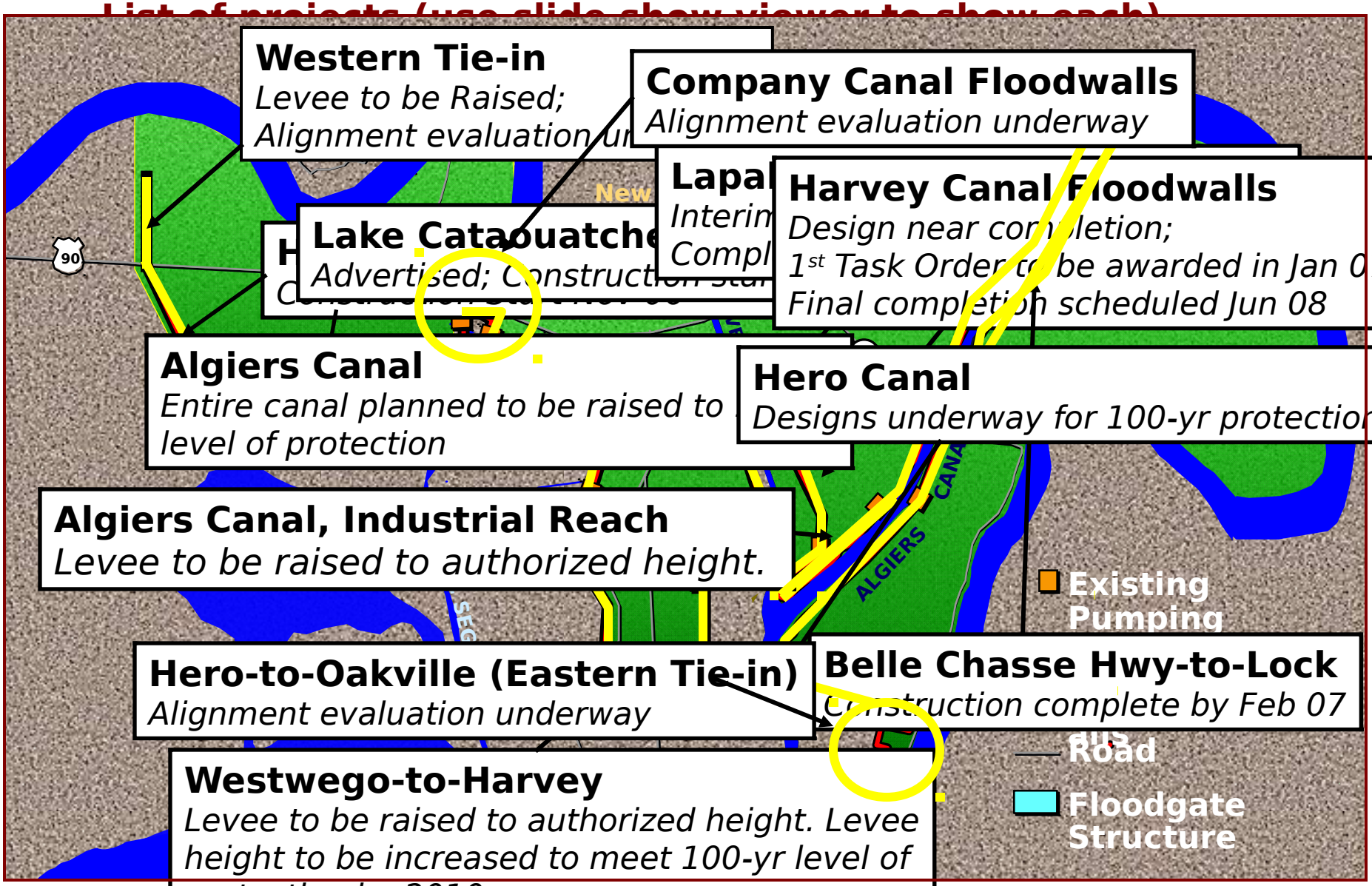
--When complete, will cover over 65 miles of levees, floodwalls and floodgates in Jefferson, Orleans, and Plaquemines parishes

--Will protect over 65,000 homes and businesses in the three parishes

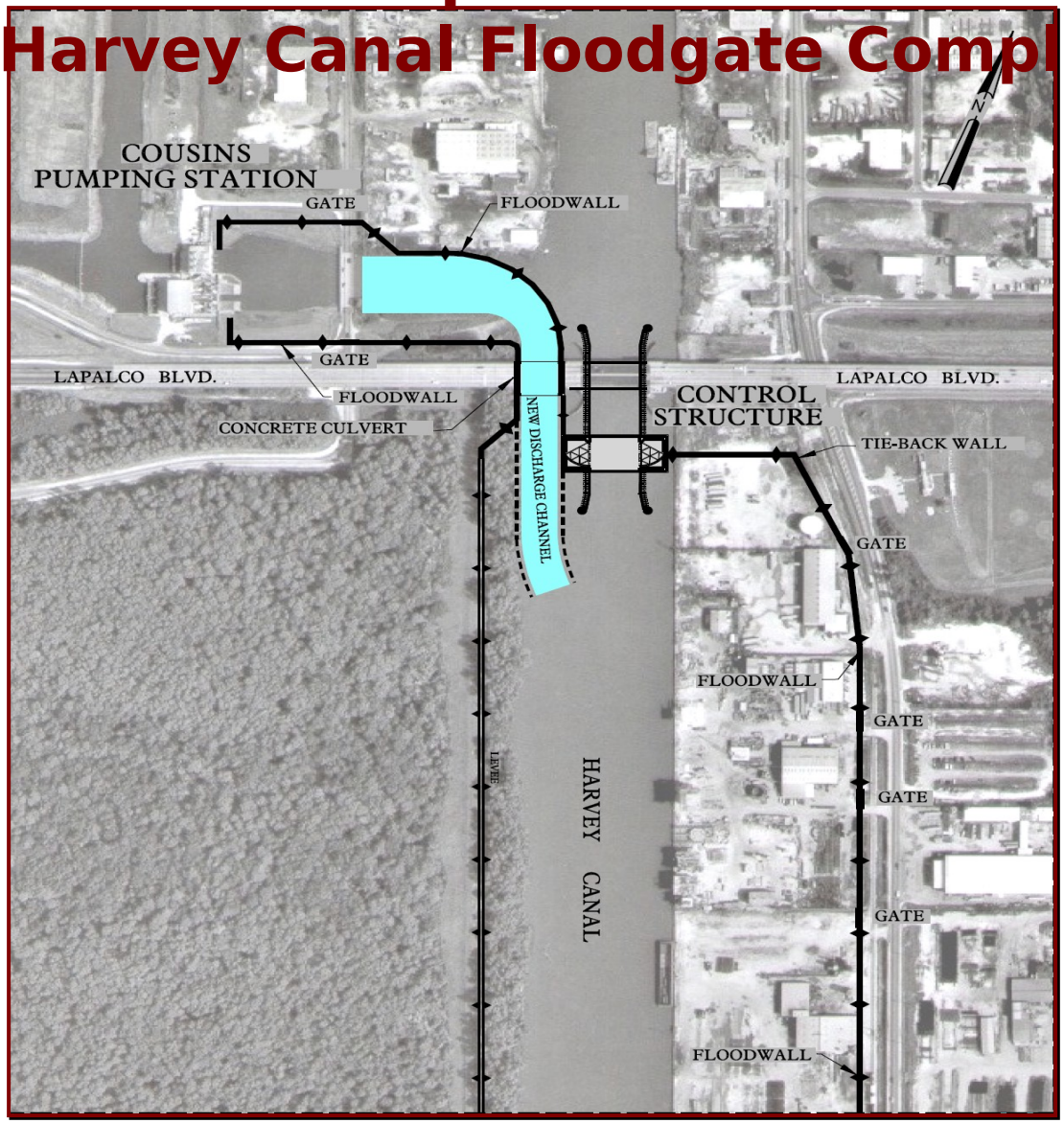
*Water Resources Development Act

West Bank & Vicinity Hurricane Protection Project

List of projects (use slide show viewer to show each)



West Bank & Vicinity, New Orleans, Cousins Pump Station and Harvey Canal Floodgate Complex



--Harvey Canal Floodgate is about 80 percent complete and is manually operable.

--Completion of the floodwall along the Cousins Pump Station discharge channel is under construction.

--To ensure closure across the Harvey Canal and protection from storm surges next summer, a +8 foot level of protection is being constructed.

--This closure will prevent storm surges above +3 feet from entering the canal north of Lapalco Boulevard.

--Construction was delayed because of Hurricane Katrina and new design

West Bank & Vicinity Hurricane Protection Project

100-year level of protection challenges

--New Post-Katrina design criteria:

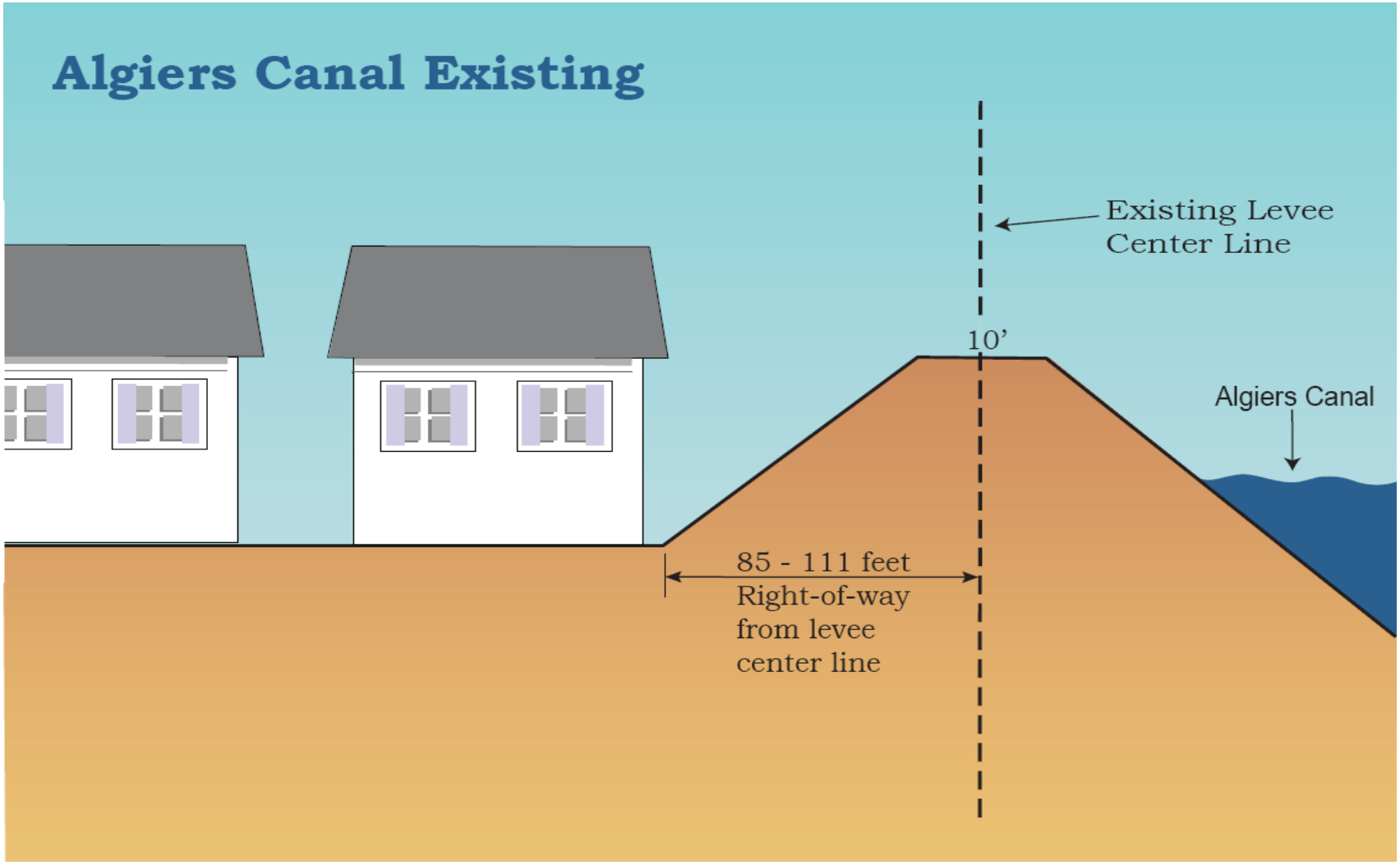
--wave run-up
--risk and uncertainty
--future subsidence and sea level rise
--datum change
--more conservative geotechnical analysis, including water designed to top of wall
--realignments to protect from vessel impacts.

--These criteria add to the height in the floodwalls and levees and provide a more conservative design

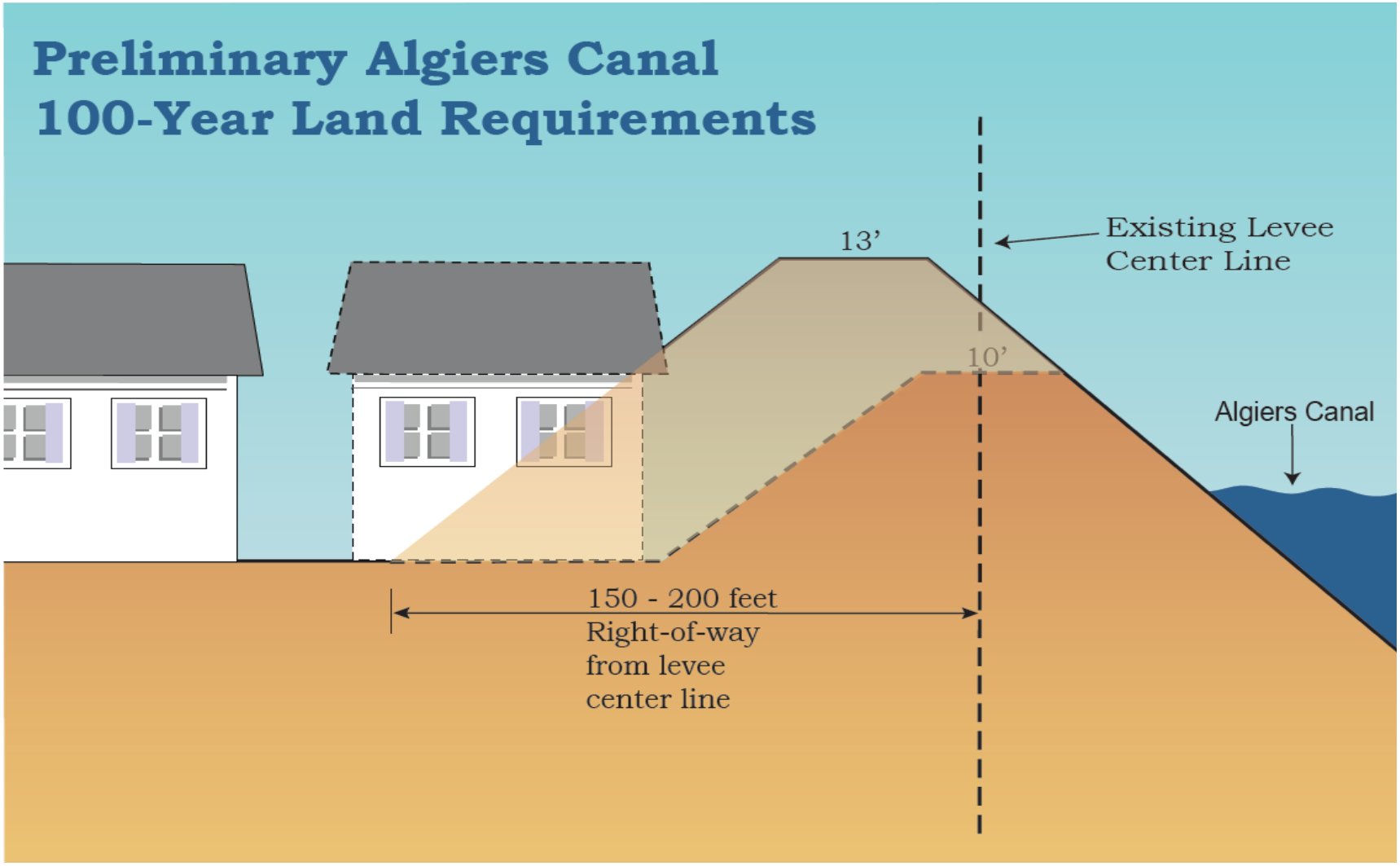
Areas of Concern

Algiers Canal, Harvey Canal, Company Canal

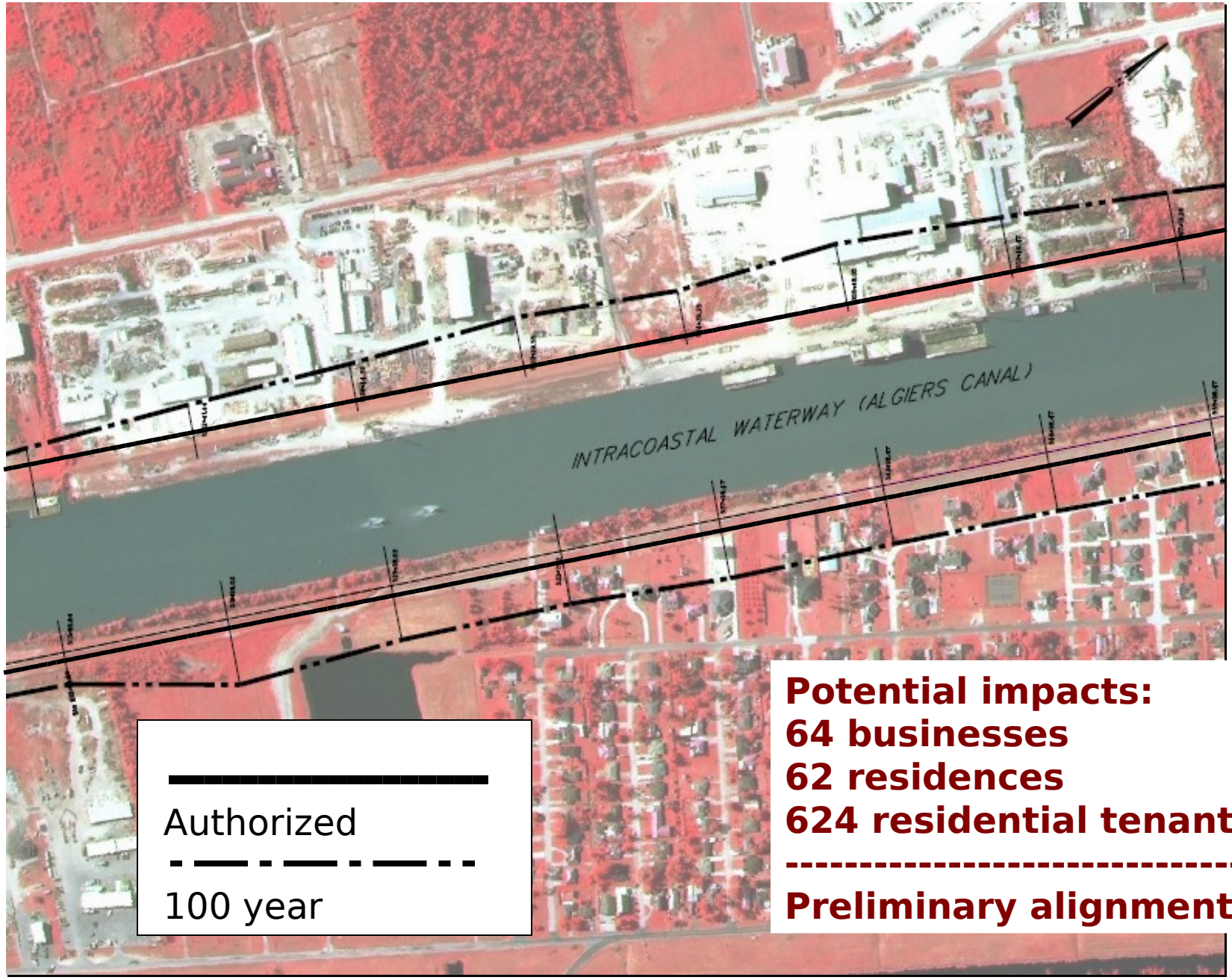
ALGIERS CANAL 100 YEAR LEVEE ALIGNMENT



ALGIERS CANAL 100 YEAR LEVEE ALIGNMENT



ALGIERS CANAL 100-YEAR LEVEE ALIGNMENT

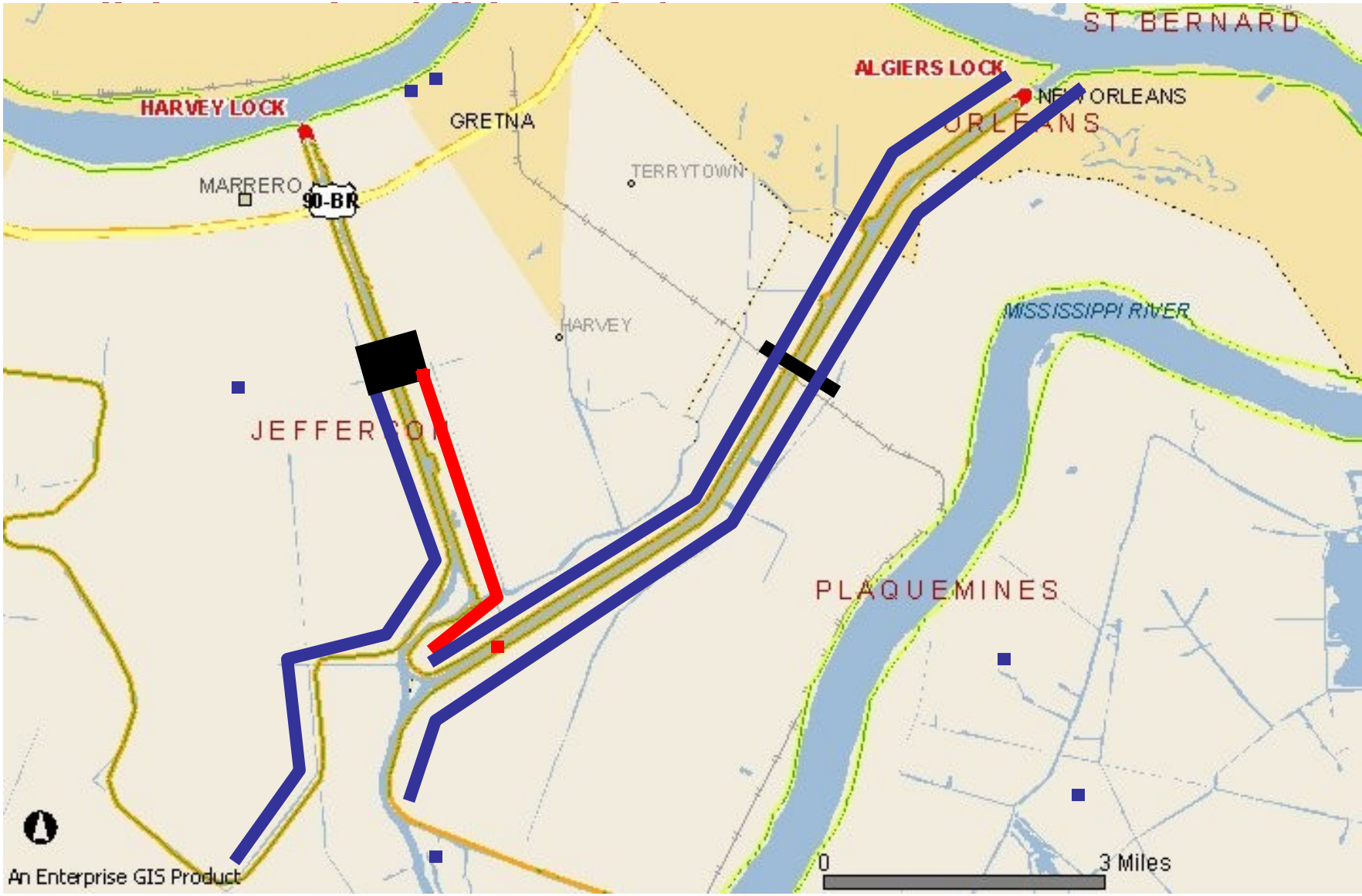


West Bank & Vicinity Hurricane Protection Project

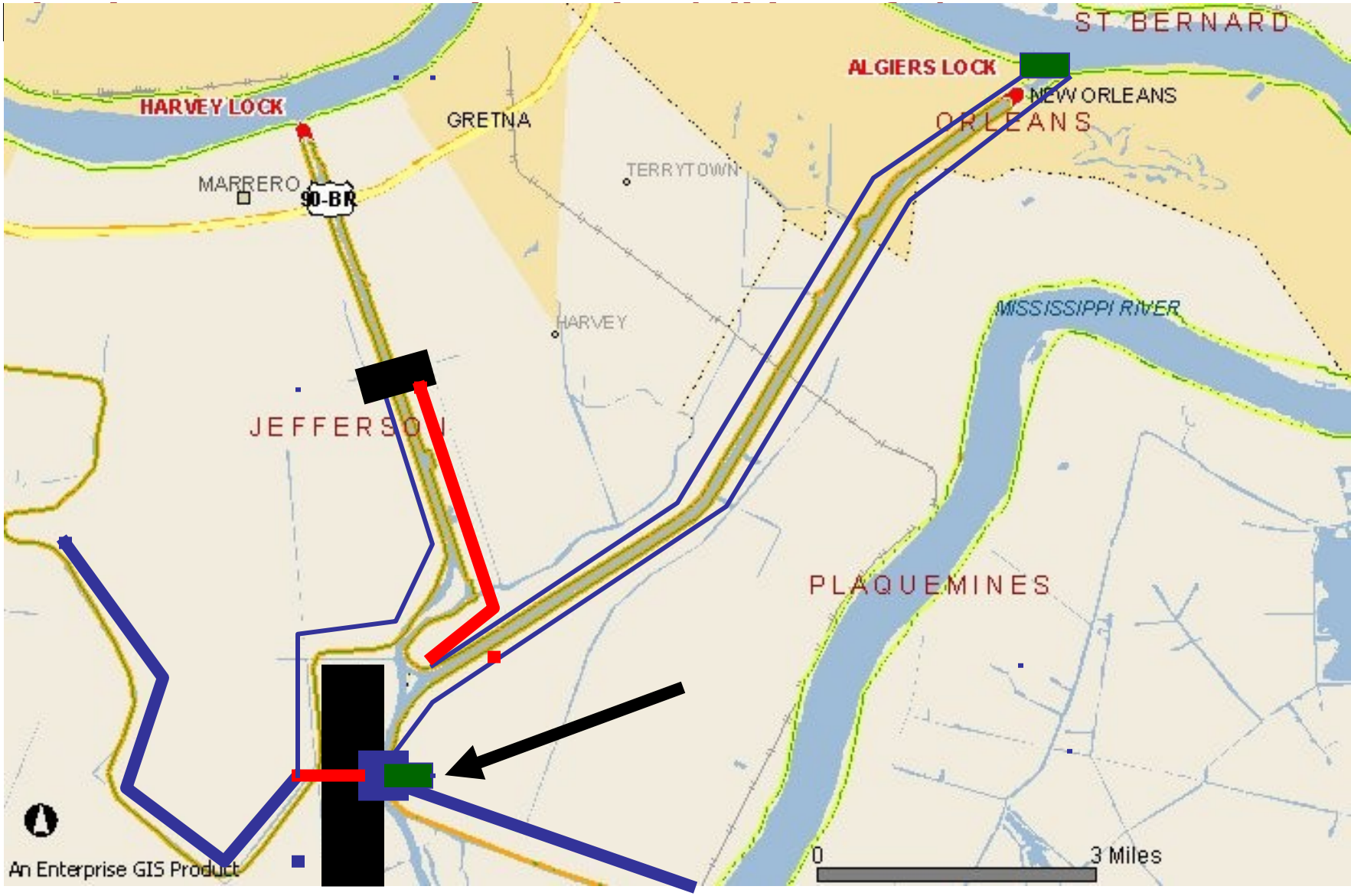
100-year alternatives under evaluation

- Floodgate South
- Company Canal
- Western Tie-in
- Hero Canal to Oakville (Eastern Tie-in)

West Bank & Vicinity Hurricane Protection Project

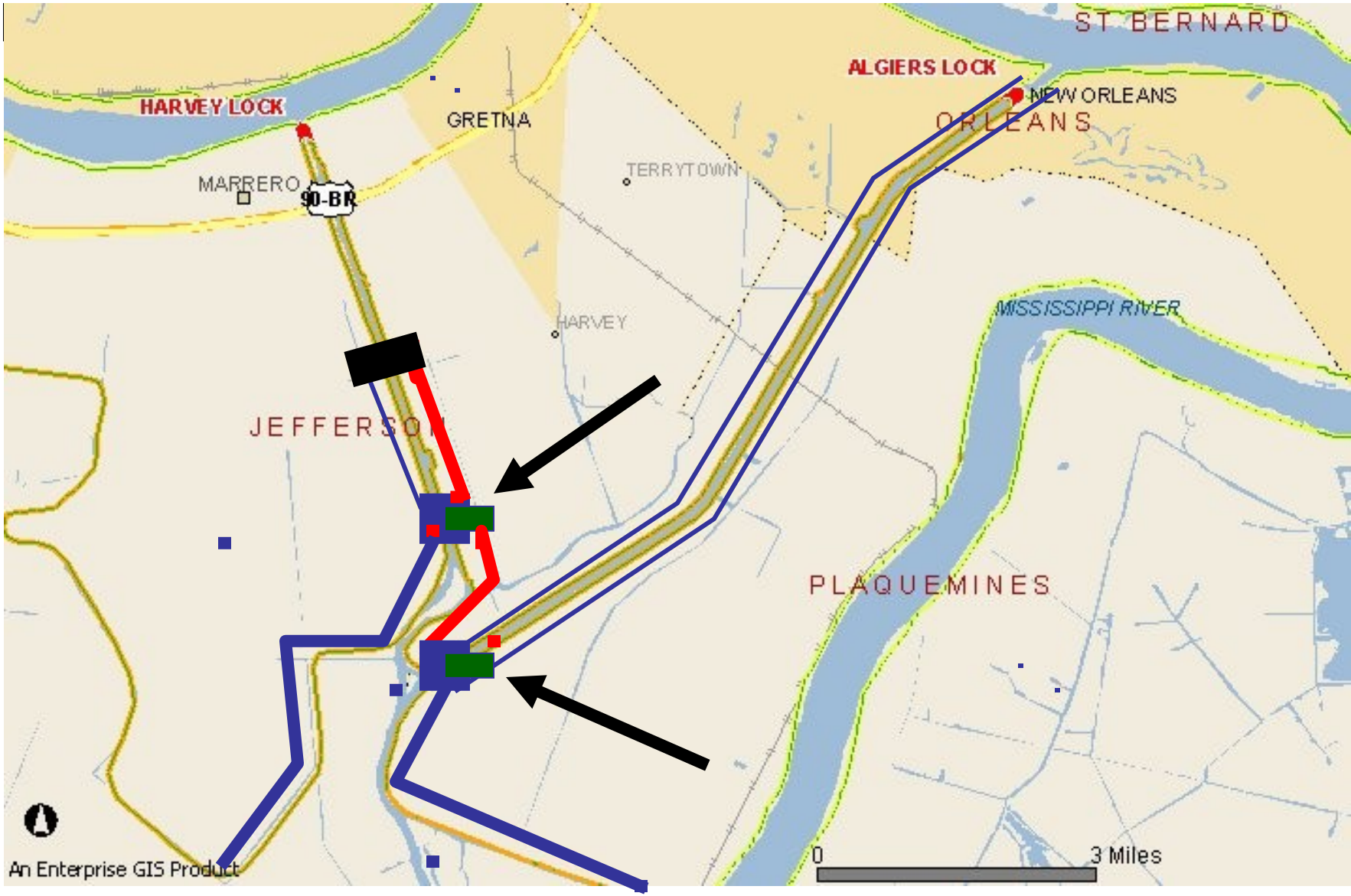


West Bank & Vicinity Hurricane Protection Project



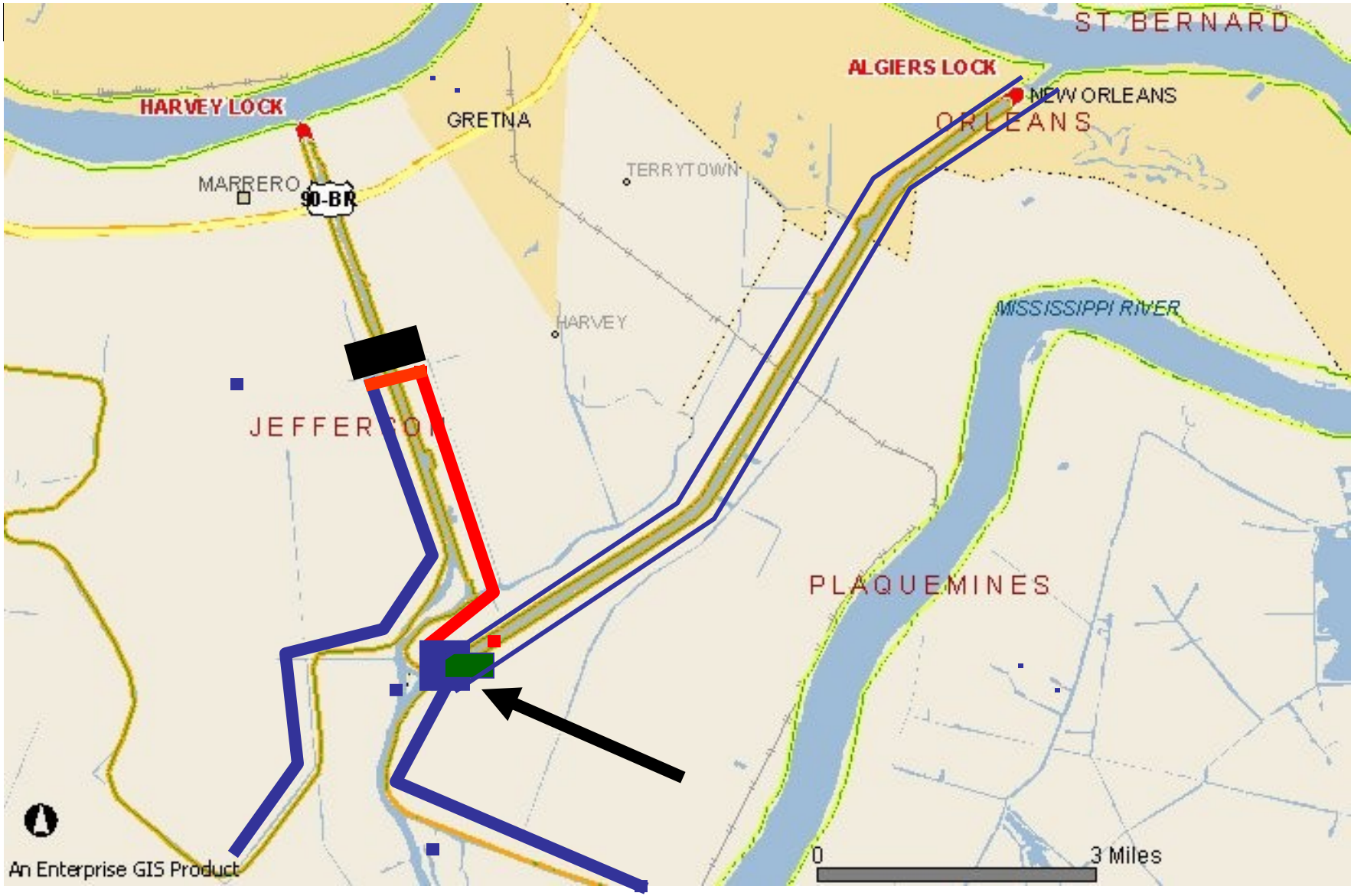
West Bank & Vicinity Hurricane Protection Proje

Flood gates-Algiers & Harvey alternative (Slide 3 of 4)



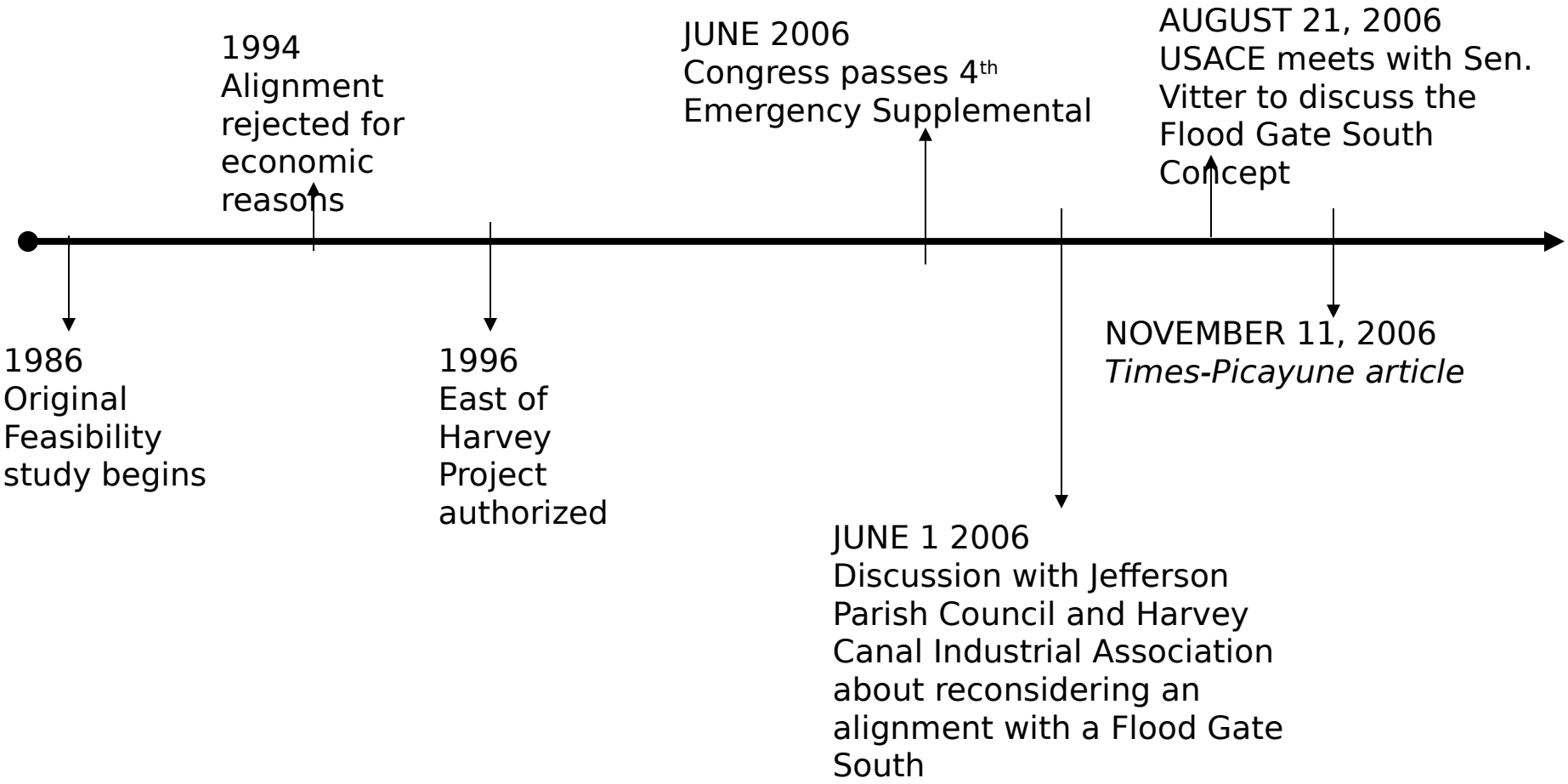
West Bank & Vicinity Hurricane Protection Projec

Flood Gate on Algiers- only alternative (Slide 4 of 4)

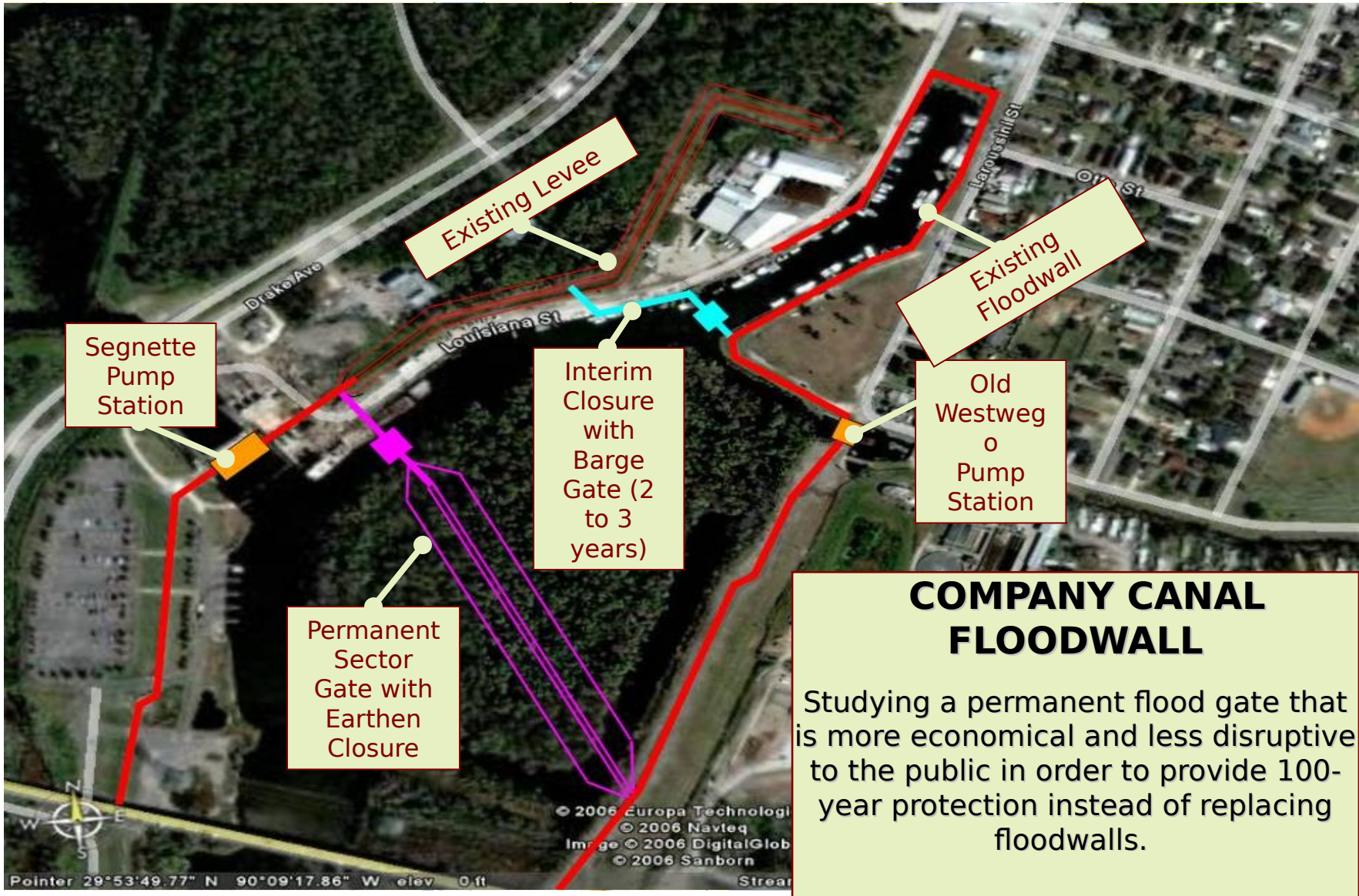


West Bank & Vicinity
Hurricane Protection Project

Flood Gate South chronology


1986
Original Feasibility study begins
1994
Alignment rejected for economic reasons
1996
East of Harvey Project authorized
JUNE 2006
Congress passes 4th Emergency Supplemental
JUNE 1 2006
Discussion with Jefferson Parish Council and Harvey Canal Industrial Association about reconsidering an alignment with a Flood Gate South
AUGUST 21, 2006
USACE meets with Sen. Vitter to discuss the Flood Gate South Concept
NOVEMBER 11, 2006
Times-Picayune article

West Bank & Vicinity Hurricane Protection Project Company Canal (Westwego)

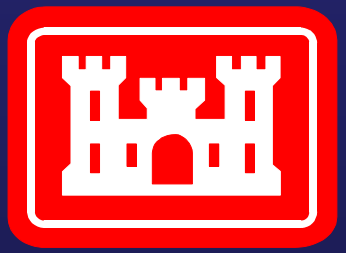


COMPANY CANAL FLOODWALL

Studying a permanent flood gate that is more economical and less disruptive to the public in order to provide 100-year protection instead of replacing floodwalls.

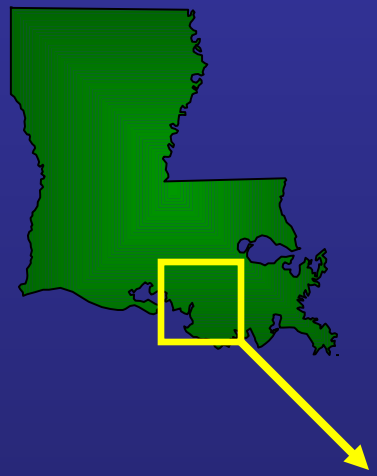
Interim closure/barge gate to provide authorized level of protection until a

Donaldsonville to the Gulf Hurricane Protection Project
Feasibility Study



US Army Corps of Engineers®
New Orleans District

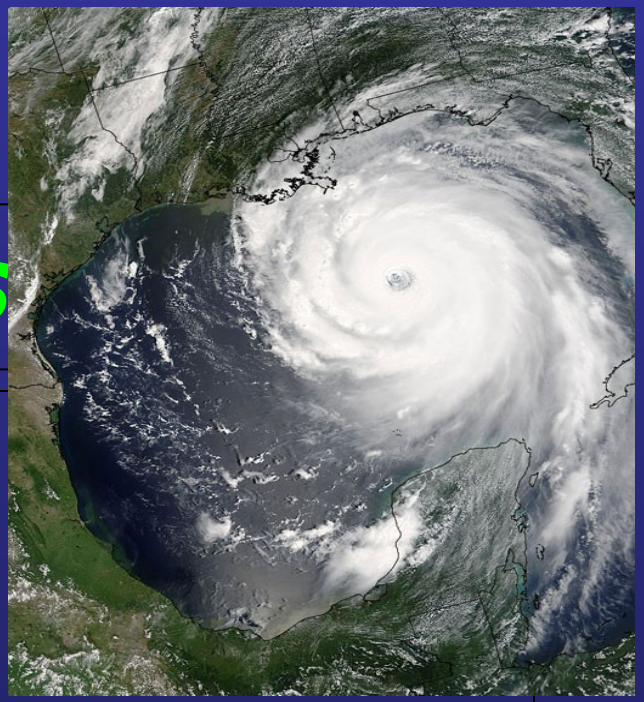
Donaldsonville to the Gulf Hurricane Protection Project



Corps of Engineers
New Orleans District

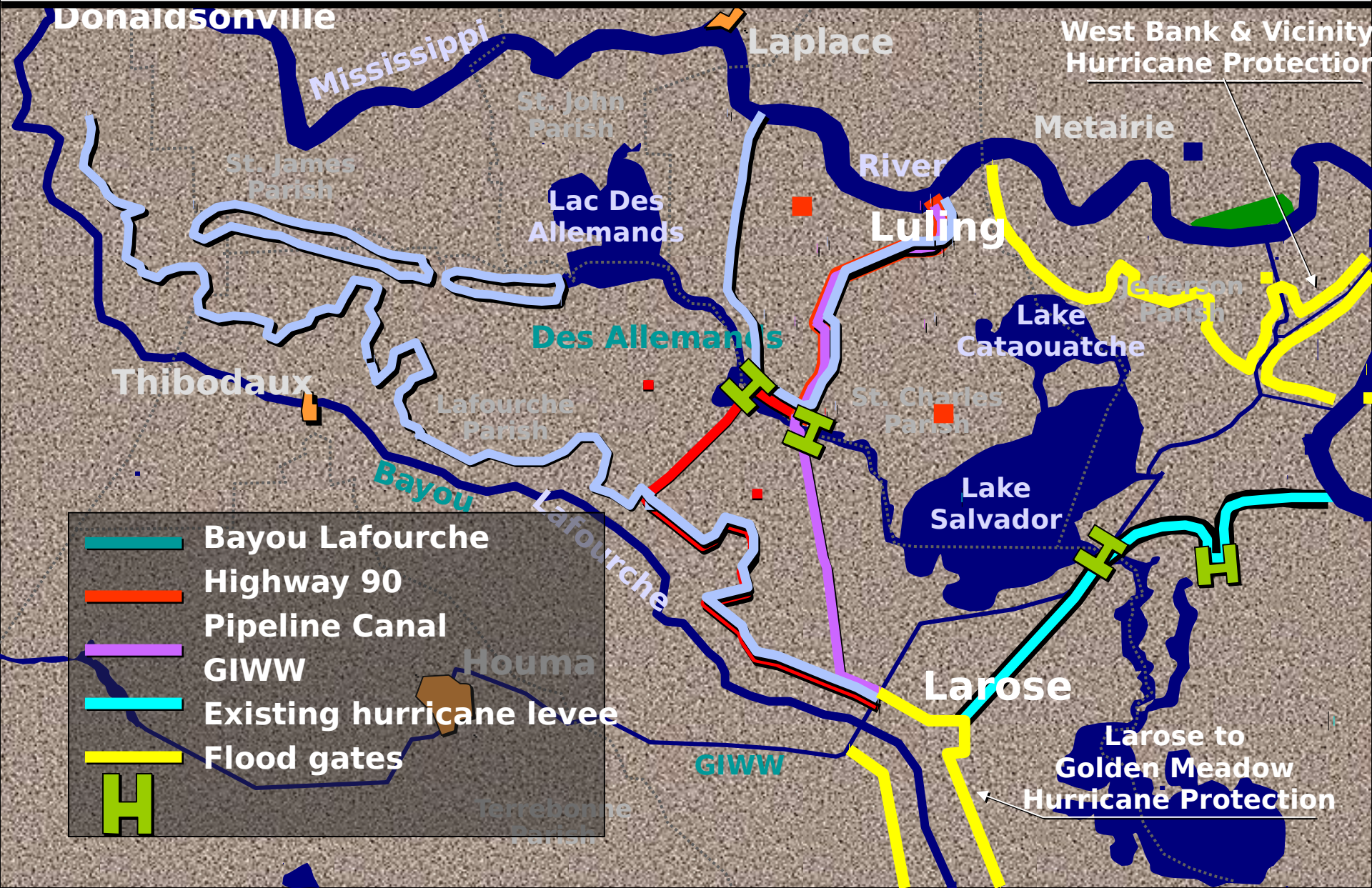
Study Objectives

- Hurricane protection
- Interior drainage
- Eco-system restoration



Donaldsonville to the Gulf

Possible Hurricane Levee Alignments



Donaldsonville to the Gulf Hurricane Protection Project

Study Schedule

- Recommend a levee alignment in April 2007
- Complete the Draft Feasibility Report in September 2007

Donaldsonville to the Gulf

Benefits of the GIWW levee alignment to West Bank of Jefferson Parish

- Primary line of hurricane protection for West Bank and Vicinity, Lafitte and surrounding communities.

- Existing West Bank and Vicinity flood control structures would become a second line of hurricane protection.

- Closure of GIWW structures would prevent extreme tidal surges from entering Lake Salvador and canals in vicinity of West Bank will provide additional storage capacity for rainfall.

- 100-year protection for GIWW, by providing a first line of defense, would provide protection greater than 100-year for the West Bank.